

## Abstract of the Invention

The present invention discloses an information processing method including the following steps:

5 (1) a first step receiving an encoded information data series as input;

(2) a second step selecting a candidate decoded data code series from a first candidate decoded data code series group, decoding the encoded information data series, and generating a first decoded data code series;

10 (3) a third step detecting a position and contents of erroneous decoded data codes in the first decoded data code series that cannot exist in the information data code;

(4) a fourth step correcting the erroneous decoded data code and generating a corrected data code;

15 (5) a fifth step selecting a single decoded data code series out of a second candidate decoded data code series group, decoding the encoded information data code series again, and generating a second decoded data code series;

(6) The second candidate decode data code series group includes candidate decoded data code series from the first candidate decoded data code series group that fulfills at least one of the following conditions:

20 1. A candidate decoded data code series that does not contain erroneous decoded data codes that were detected at the third step and that could not be corrected at the fourth step.

2. A candidate data code series that contains: data codes that were determined at the third step to not contain erroneous decoded data codes; and corrected data codes corrected at the fourth step.